Spare parts list

Edition 20111117

Valid for serial no. 001-xxx-xxxx

Ordering no.	Product
0558 004 800	Powercut™ 650 with 7.6m PT-31 XLPC, 230V CE
0558 004 801	Powercut™ 650 with 7.6m PT-31 XLPC, 400V CE

Spare parts are to be ordered through the nearest ESAB agency. Kindly indicate type of unit, serial number, denominations and ordering numbers according to the spare parts list.

Maintenance and repair work should be performed by an experienced person, and electrical work only by a trained electrician. Use only recommended spare parts.

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Item	Qty 230V CE	Qty 400V CE	Ordering no.	Denomination	Notes
101	1	1	0558 001 922	Plasma tube top cover	16”
102				Label ESAB	
103	2	2	0558 001 916	Plasma tube end cover	
104				Label pattent power supplies	
105	1	1	0558 000 536	Label warning	
106	1	1	0558 001 918	Plasma tube bottom cover	16”
107	2	2	0558 001 926	Plasma tube side cover	16”
108				Label caution read manual	
109				Label fault indicator	(BL)
110				Label warning	
111				Label	208/230VAC
112				Label high voltage	
113	1		0349 312 596	Cable input power	
113		1	0349 312 597	Cable input power	

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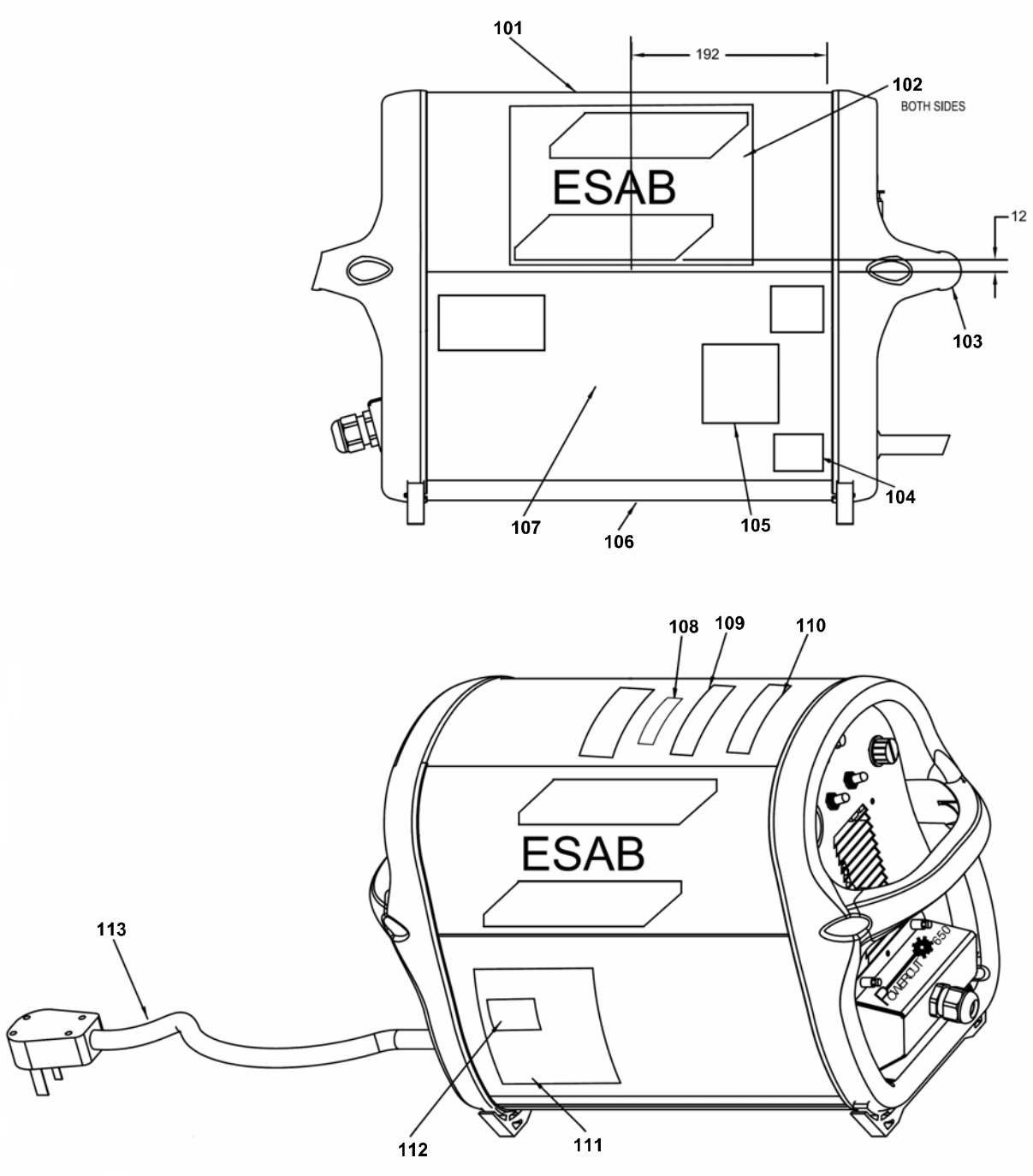
101
192
102
BOTH SIDES
ESAB
12
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ESAB
113
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C = component designation in the circuit diagram

Item	Qty 230V CE	Qty 400V CE	Ordering no.	Denomination	Notes	C
201	3	3	0559 000 150	Connector male	1/8 NPTM	
201	2	2	0558 006 261	Elbow union	90 DEG 1/8 NPT	
201	1	1	0558 000 594	Gauge pressure		
201	2	2	0558 000 593	Grommet rub	1.50ID 1.75GD X .06W	
202	2	2	0558 000 596	Switch seal		
203	1	1	0558 000 385	Switch LPG	50/80 PCM	S1
204	1	1	0558 000 384	Lamp	White 125V	PL1
205	1	1	0004 487 025	Lamp	LED yellow 12V	PL2
206	1	1	0558 000 698	Switch LPG	80	S2
207	1	1	0558 001 388	Knob	1.17DIA 1/4” shaft	
207	1	1	0558 001 176	Potentiometer	10k 3W	R1
208	1	1	0558 005 339	Plasma tube panel front		
209				Label PC-650		
210	1	1	0558 002 581	Strain relief input	NPT1	
210	1	1	0558 004 266	Strain relief	NUT 1”	
211	1	1	0558 000 396	PC board shunt		PCB4
211	2	2	0559 000 213	Capacitor	47nF 660V	C23, C23A
212	2	2	0558 003 312	Cover kydex	PC-650	
213	4	4	0558 001 930	Plasma tube extruded bar	16”	
214	1	1	0558 005 498	Torch compartment cover		
215	2	2	0558 002 780	Foot plasma tube		
216	1	1	0558 000 608	Cable	WORK/GND	
216	1	1	0559 000 120	Strain relief	(WORK cable)	

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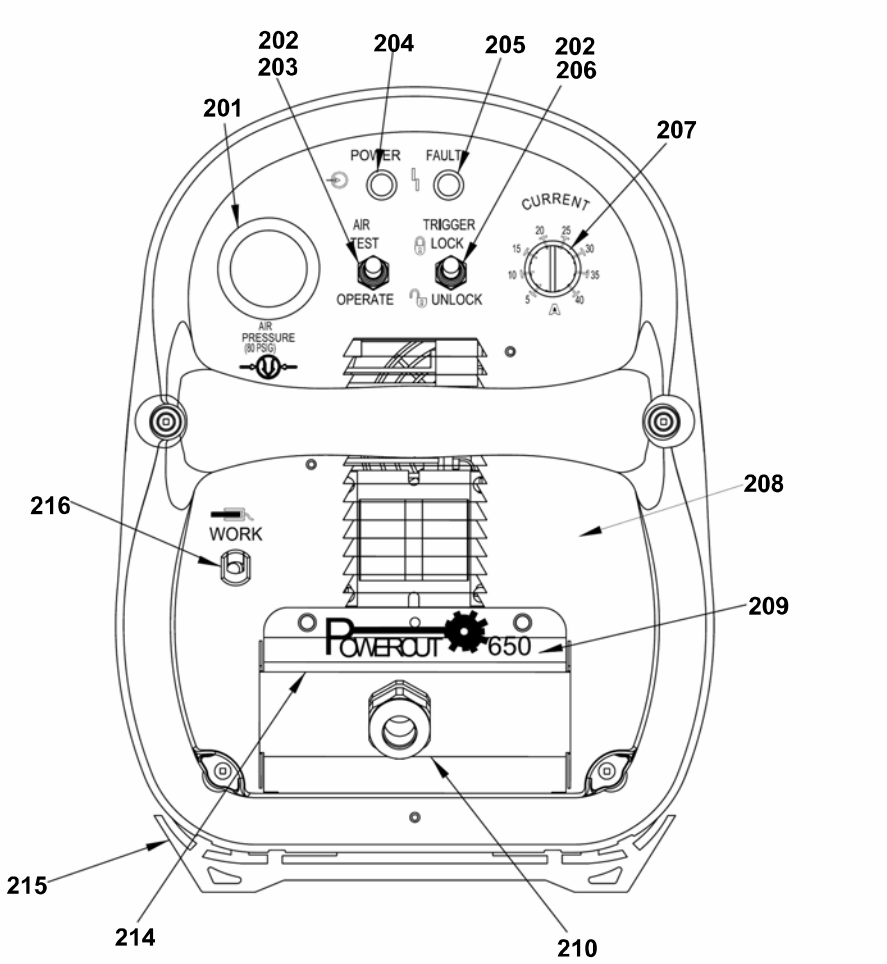
202
203
204
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202
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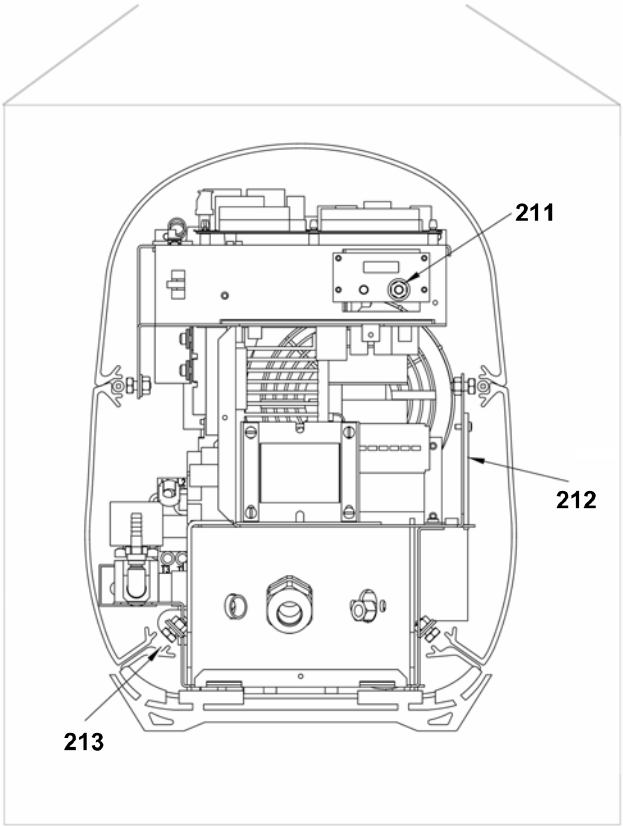
201
207
POWER
FAULT
CURRENT
AIR TEST
TRIGGER LOCK
OPERATE
UNLOCK
AIR PRESSURE (80 PSI/G)
208
216
WORK
209
POWERCUT 650
215
214
210


211
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213

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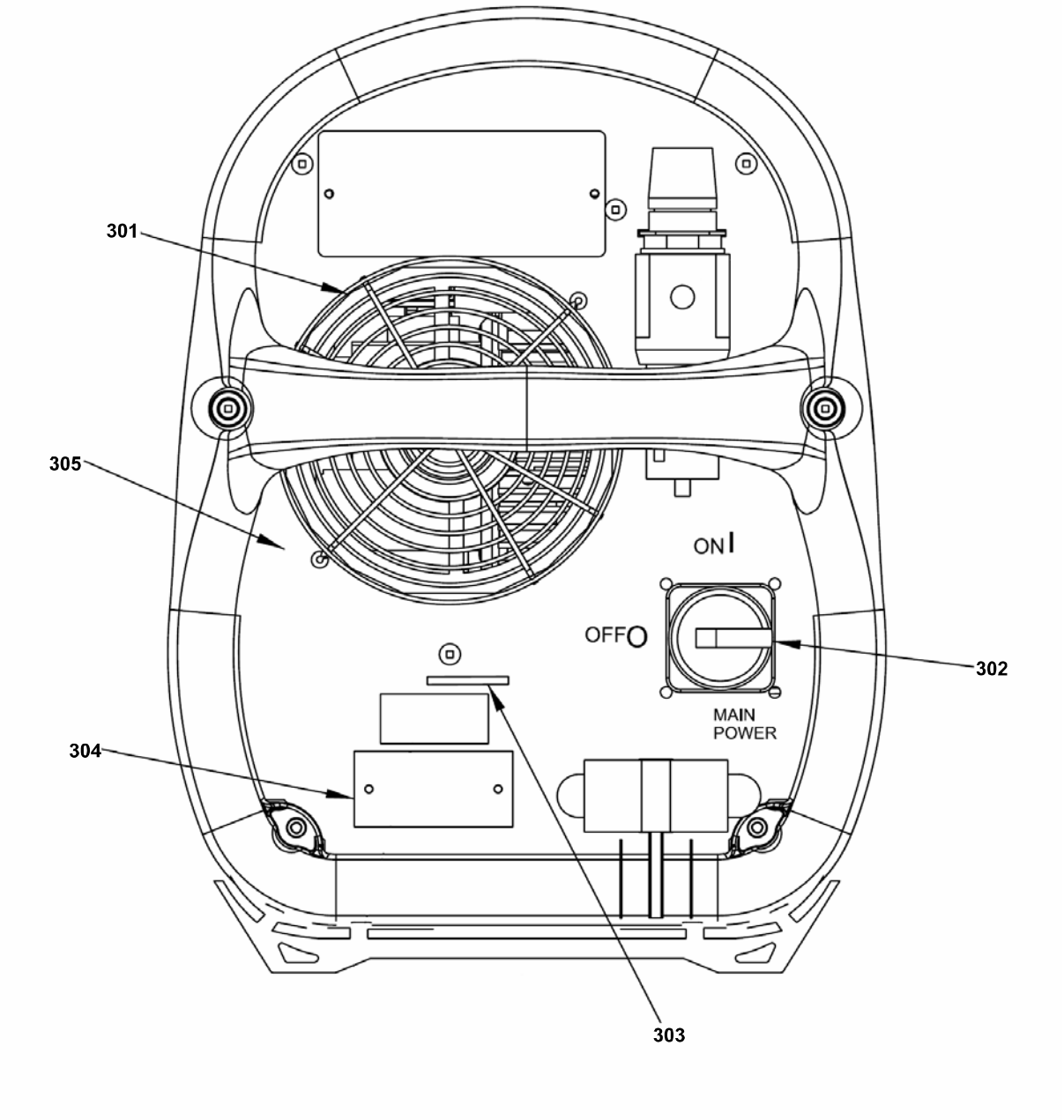
C = component designation in the circuit diagram

Item	Qty 230V CE	Qty 400V CE	Ordering no.	Denomination	Notes	C
301	1	1	0558 005 659	Finger guard		
302	1	1	0558 005 434	Power switch		S3
303				Label 208/230 Volt unit		
304				Name plate code serial stock		
305	1	1	0558 005 340	Rear panel		



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NOTES

C = component designation in the circuit diagram

Item	Qty 230V CE	Qty 400V CE	Ordering no.	Denomination	Notes	C
401	1	1	0558 003 313	Partition torch plumb		
402				Label high voltage		
403	0.9	0.9	0558 005 436	Tubing		
404	1	1	0558 000 755	Term bushing		
405	1	1	0559 000 159	Connector male	1/4 NPTM	
406	1	1	0558 006 156	Valve	SOL1 24V AC	SOL1
406	1	1	0559 000 089	NPL pipe	1/4 X .38 L BRS	
406	1	1	0559 000 003	Tee street	1/8- 27 NPT	
406	2	2	0559 000 151	Elbow male swivel	90 DEG 1/4	
406	1	1	0559 000 253	Flow switch		FS
406	1	1	0004 492 009	Adaptor hose gland		
406	1	1	0558 006 271	Bushing brass	1/8” - 1/4”	
407	1	1	0455 803 880	PCB EMC		FN1
408				Label ground		
409	1	1	0558 005 341	Base	Aluminium	
410	1		0558 005 437	Inductor power factor correct		L2
410		1	0559 000 229	Line reactor	3PH	L2
411	1	1	0559 000 228	Transformer high voltage		T5
412	1	1	0558 002 183	Cover high freo kydex		
413	1	1	0558 001 180	Spark gap assembly		SG
414	3	3	0559 000 150	Connector male	1/8 NPTM	
415	2	2	0558 006 261	Elbow union	90 DEG 1/8 NPT	
416	1	1	0558 005 159	Adapter	A/I - GF	

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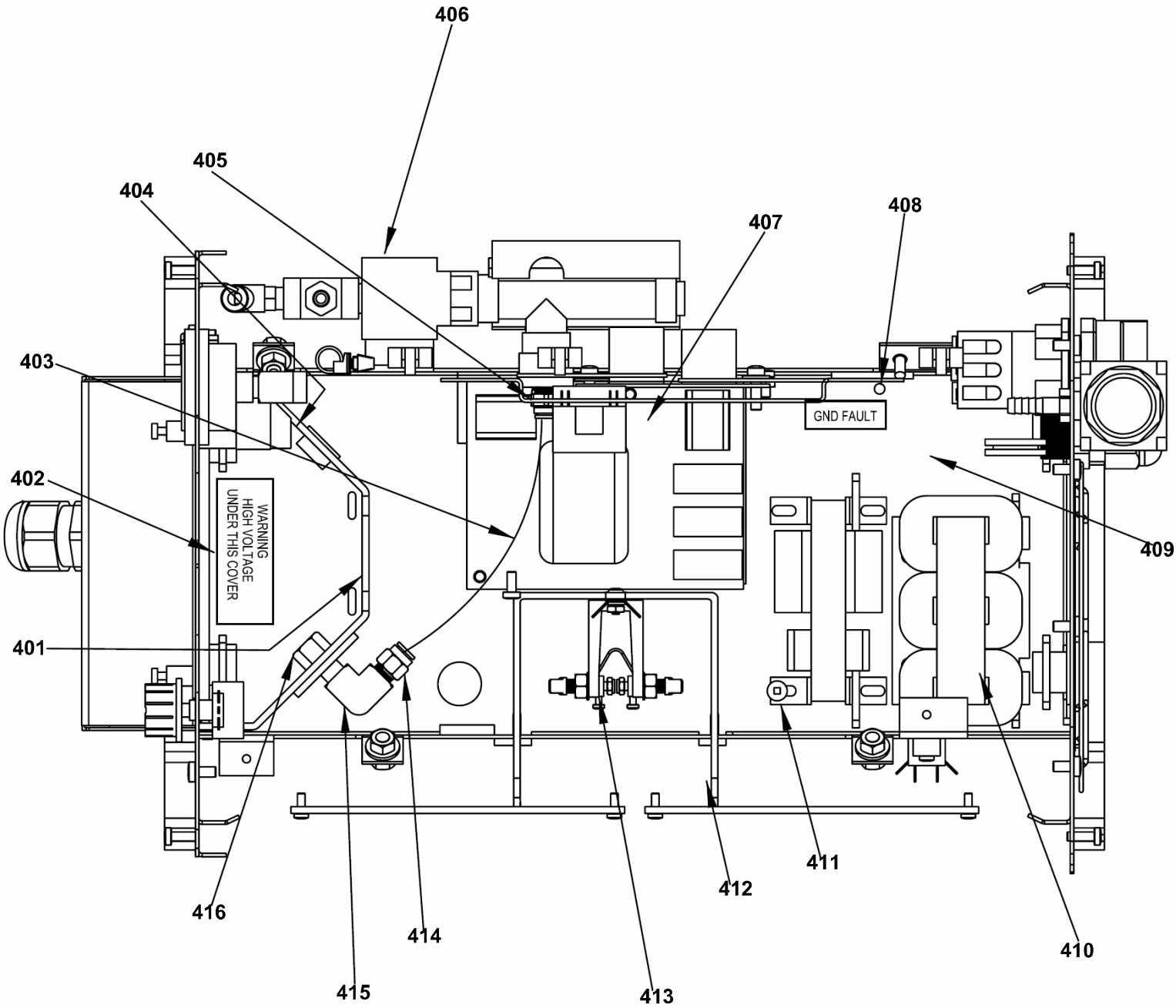
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GND FAULT
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WARNING
HIGH VOLTAGE
UNDER THIS COVER
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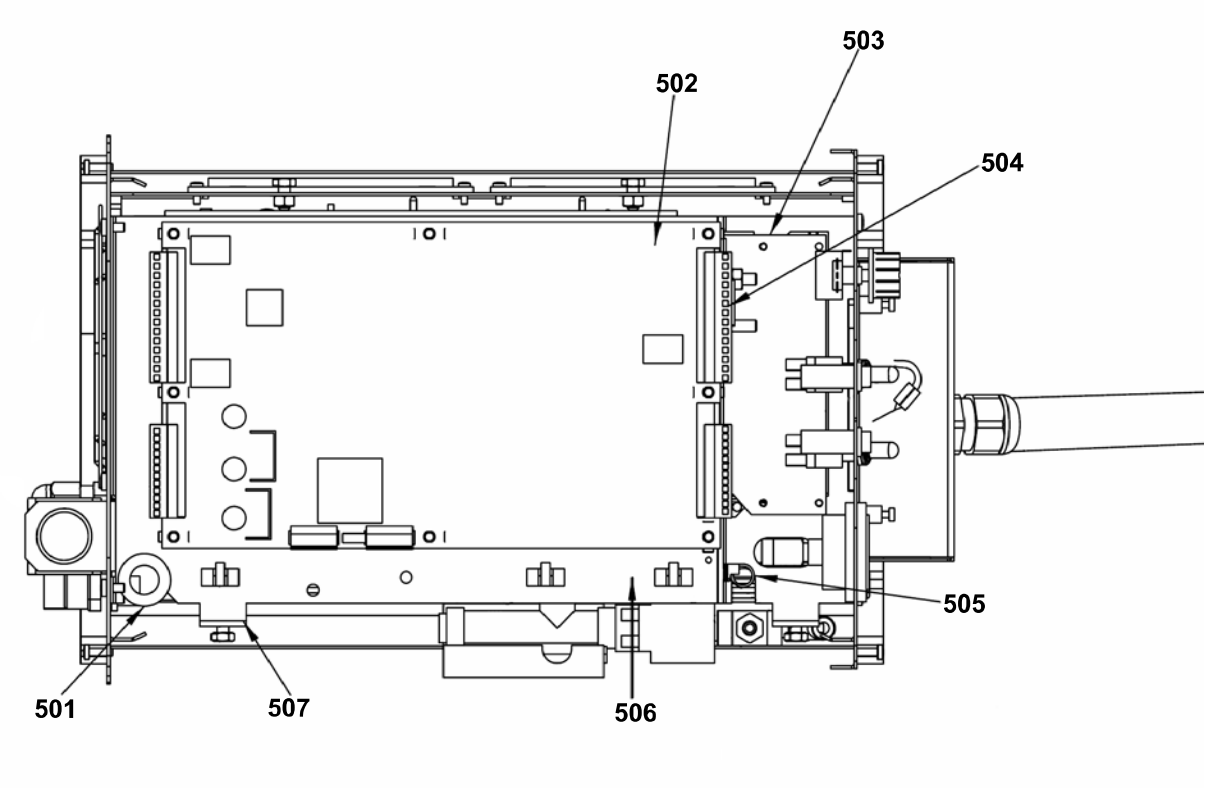
C = component designation in the circuit diagram

Item	Qty 230V CE	Qty 400V CE	Ordering no.	Denomination	Notes	C
501	4	4	0558 000 584	Grommet		
502	1	1	0558 005 158	PCB universal control		
503	1	1	0558 003 785	PCB start up network		
504	1		0558 003 304	Kit wire	Main 208/230V	
504		1	0558 005 316	Kit wire	Main 400/460V	
504	1		0558 005 345	Kit wire	230V CE	
504		1	0558 005 346	Kit wire	400V CE	
505	1	1	0559 000 028	Grommet rub	0.44 ID 0.56 GD X .06W	
506	1	1	0558 003 311	Bracket control board	MTG	
507	2	2	0558 000 593	Grommet rub	1.50 ID 1.75 GD X .06W	



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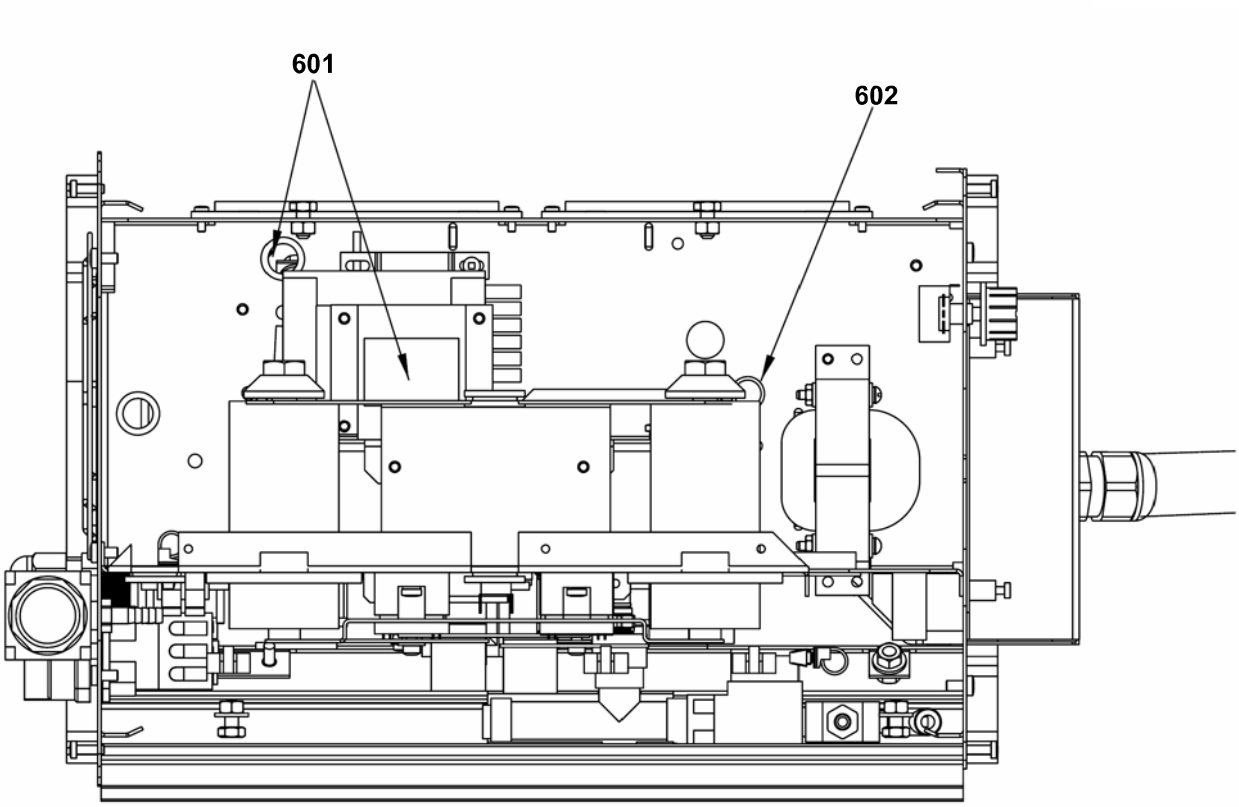
Item	Qty 230V CE	Qty 400V CE	Ordering no.	Denomination	Notes
601	4	1	0559 000 094	Bushing snap	
602	1	1	0559 000 086	HEYCO snap bushing	



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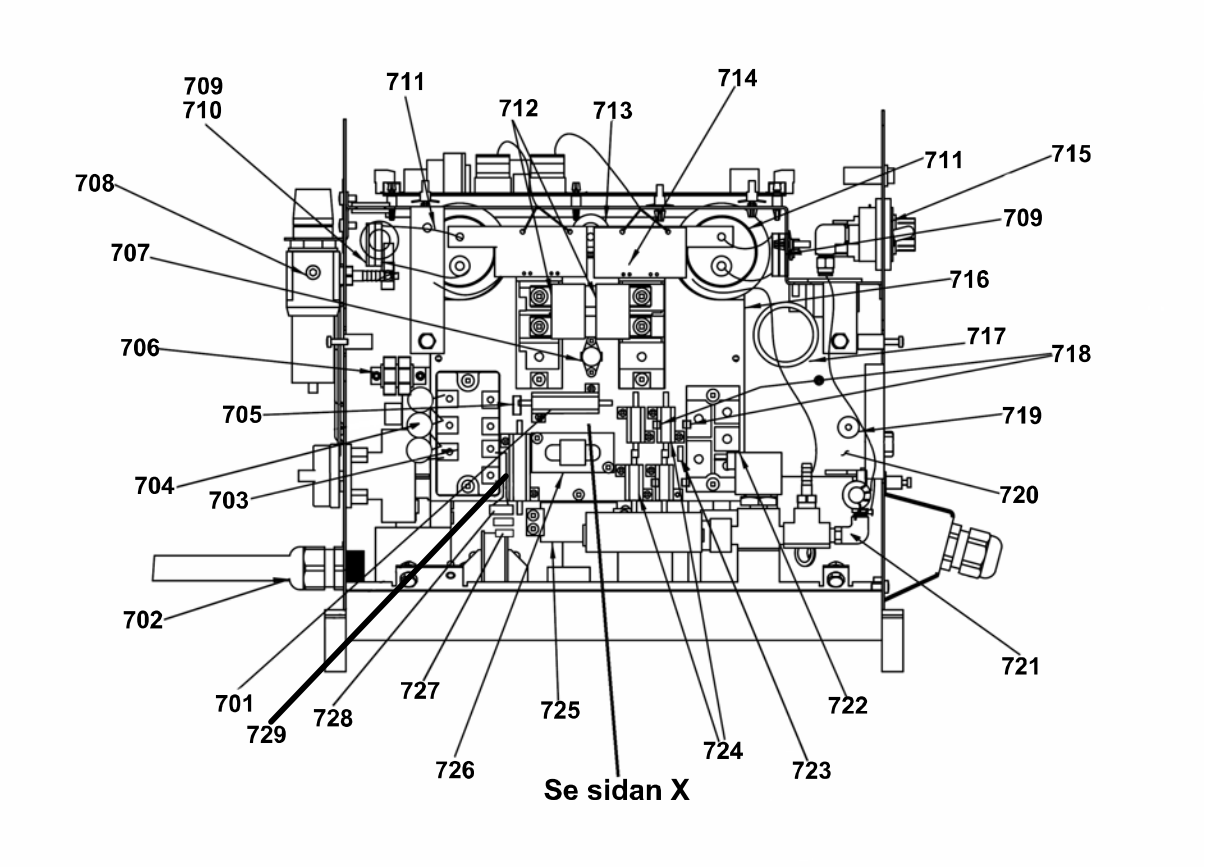
C = component designation in the circuit diagram

Item	Qty 230V CE	Ordering no.	Denomination	Notes	C
701	1	0558 000 400	Resistor	50W 10 OHM, Use with item 750	R7
702	1	0349 312 596	Cable input power		
702	1	0558 003 353	Strain relief input	NPT 3/4	
702	1	0349 312 878	Strain relief NUT	3/4”	
703	1	0558 000 623	Module input bridge	Use with item 750	IBR
704	1	0559 000 211	Varistor	3x27s V	(MOV 1,2,3)
705	1	0559 000 218	Capacitor	0.22uF 1000 VDC	C19
706	2	0558 000 600	Terminal block	(2 POS 20A)	TB1, TB5
707	1	0004 487 055	Switch termal	Use with item 750	TS1
708	2	0559 000 014	Plug hole	HEX HD .25-20 X 0.50	
708	1	0349 312 612	Quick connector		
708	1	0558 005 394	Filter regulator		
708	1	0004 492 009	Adaptor hose gland		
709	2	0559 000 217	Resistor	2x50k OHM 12W	(R2, R15), (R16, R17)
710	1	0559 000 209	Capacitor	1uF 630 VAC	C3
711	2	0558 000 788	Grommet		
711	2	0558 000 615	Capacitor	1000uF 400 VDC	C1, C2
712	2	0559 000 016	Busbar	IGBT	
712	2	0004 487 114	Capacitor	1.0uF 600 VDC	C15, C16
713	4	0558 000 584	Grommet		
714	2	0558 005 445	Module	IGBT, Use with item 750	Q1, Q2
714	2	0558 001 177	PC board	IGBT driver	PCB2/ PCB3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715	1	0558 000 594	Gauge pressure		
715	2	0558 006 261	Elbow union	90DEG 1/8 NPT	
715	2	0558 000 593	Grommet rub	1.50ID 1.75GD X .06W	
715	0.9	0558 005 436	Tubing		
715	3	0559 000 150	Connector male	1/8 NPTM	
716	1	0558 000 614	Heatsink		
717	1	0559 000 074	Bushing snap		
718	5	0559 000 212	Capacitor	0.01uF 1kV	C5,6,7,8,10
719	1	0558 005 442	Standoff insulating	Nylon	
720	1	0558 003 309	Heatsink bracket		
721	1	0559 000 106	Elbow male swivel	90DEG 1/8 NPTM	
722	1	0558 009 499	Module output bridge	60A 600V, Use with item 750	D1
723	1	0559 000 243	Capacitor	0.1uF 275 VAC	C23B
724	4	0558 000 404	Resistor	20 OHM 25W, Use with item 750	R3,4,5,6
725	1	0558 000 469	Cap met poly		C4
725	1	0559 000 219	Resistor	39 kOHM 2W	R9
726	1	0004 487 078	Transformer assy current		T4
727	2	0349 305 156	Core saturable		
728	1	0194 034 002	Ferrite core		
729	1	0559 000 260	Resistor	50W 100 OHM, Use with item 750	R10

SPARE PARTS SETS

Item	Ordering no.	Denomination	Notes
750	0192 058 101	Thermal compound	Use with item 751 to spread paste
751	0458 910 001	Roller	Use with item 752
752	0458 910 002	Roller handle	

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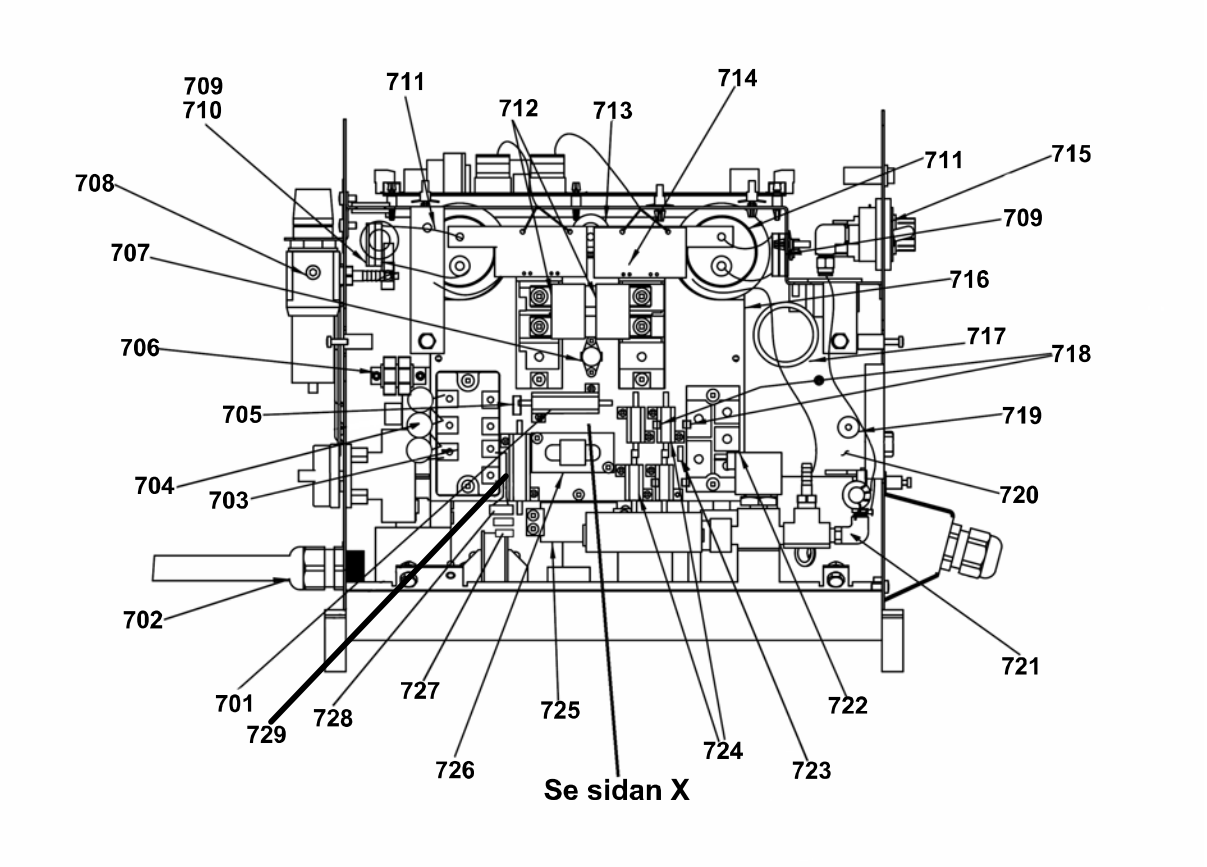
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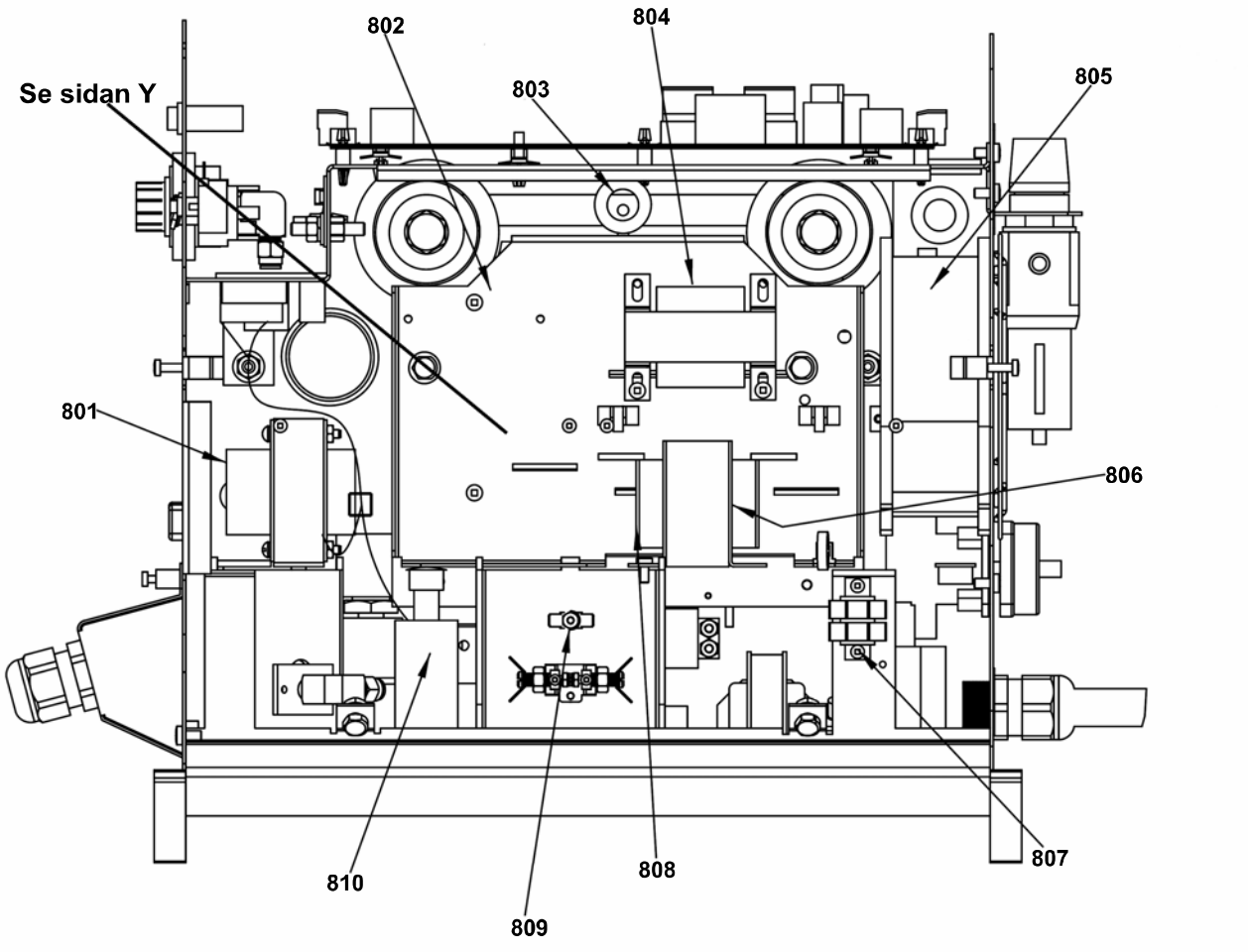
C = component designation in the circuit diagram

Item	Qty 230V CE	Ordering no.	Denomination	Notes	C
801	1	0558 005 439	Inductor output		L1
802	1	0558 005 438	Main transformer		T1
803	4	0558 000 584	Grommet		
804	1	0558 005 437	Inductor power factor correct		L2
805	1	0559 000 252	Fan	AC axial	M1
806	1	0559 000 254	Control transformer		T2
807	2	0558 000 600	Terminal block	2 POS 20A	TB1, TB5
807	1	0559 000 216	Capacitor	2x0.01uF 1000 VDC	(C11, C12)
807	1	0559 000 223	Capacitor	0.01uF 250 VAC	C9
808	1	0558 003 310	Transformer bracket		
809	1	0559 000 206	Capacitor	2x2500 pF 15kV	(C13, C14)
810	2	0559 000 160	Hole plug	Nylon	
810	1	0558 000 403	Reactor assy	High freq	T3



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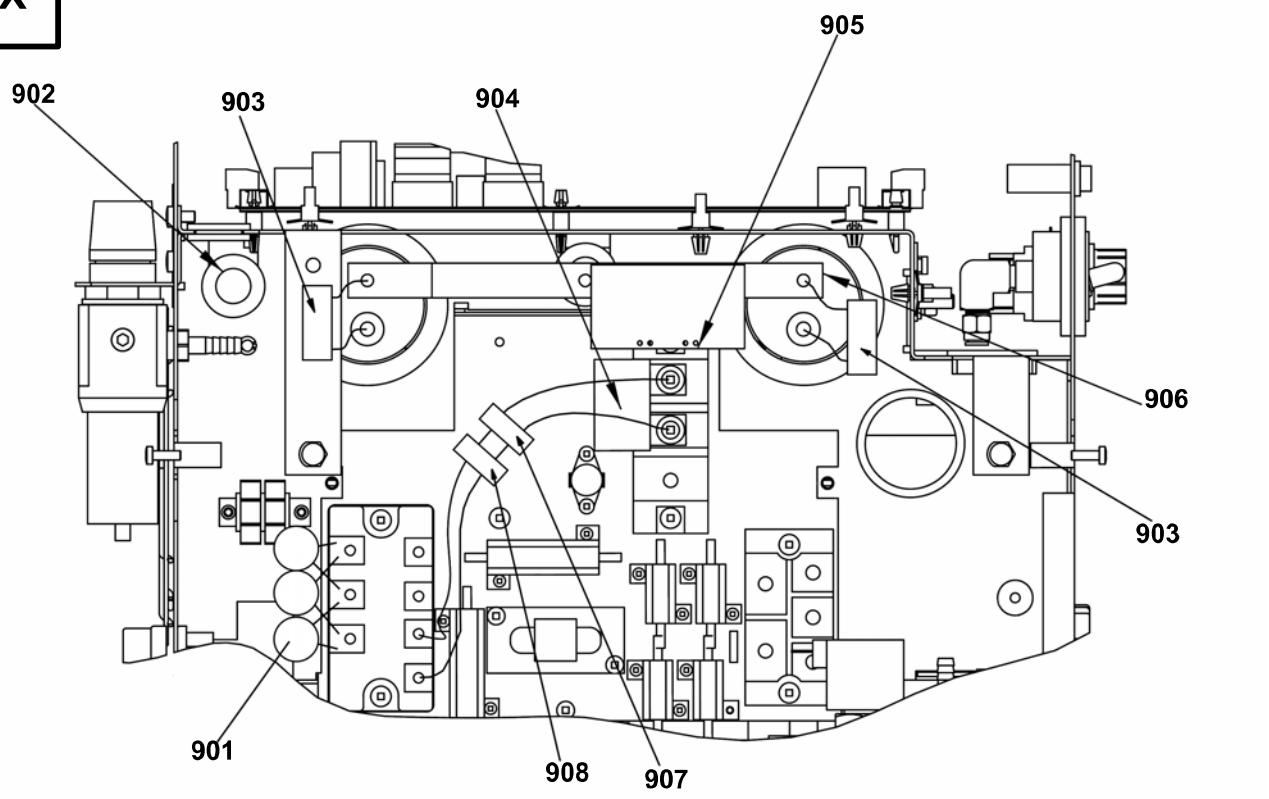
C = component designation in the circuit diagram

Item	Qty 400V CE	Ordering no.	Denomination	Notes	C
901	1	0559 000 221	Varistor	3x510V	(MOV1,2,3)
902	4	0558 000 584	Grommet		
903	2	0559 000 214	Resistor 10k, Capacitor 1uF		(R2, C3), (R15, C15)
904	1	0558 005 444	Capacitor	0.5uF 1200 VDC	
905	1	0349 312 717	Module	IGBT, Use with item 950	Q1
905	1	0558 001 178	PC board	IGBT driver	PCB3
906	1	0559 000 017	Busbar	IGBT	
907	2	0349 305 156	Core saturable		
908	1	0194 034 002	Ferrite core		

SPARE PARTS SETS

Item	Ordering no.	Denomination	Notes
950	0192 058 101	Thermal compound	Use item 751 to spread paste
951	0458 910 001	Roller	Use with item 752
952	0458 910 002	Roller handle	

X



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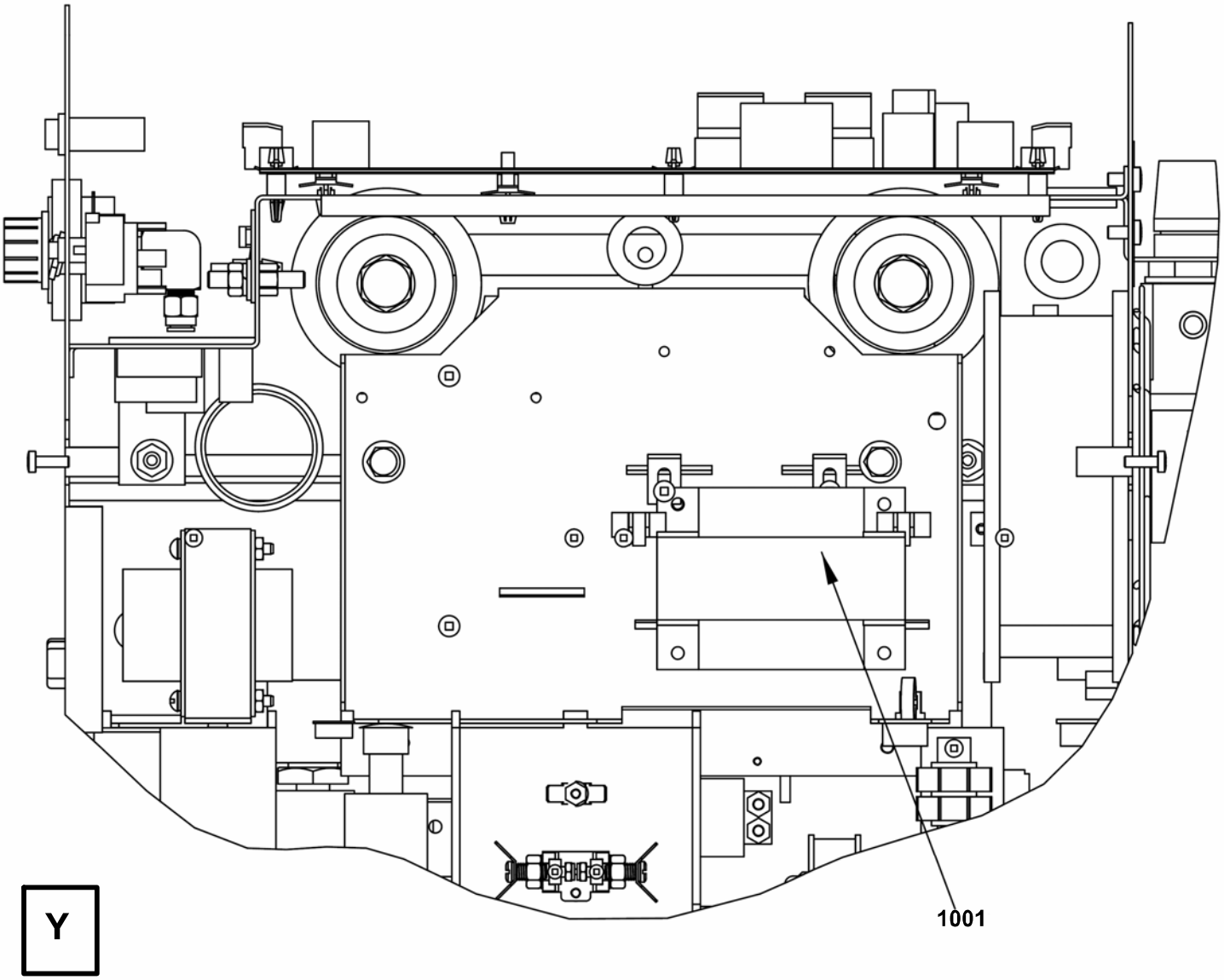
Item	Qty 400V CE	Ordering no.	Denomination	Notes	C
1001	1	0559 000 255	Control transformer		T2



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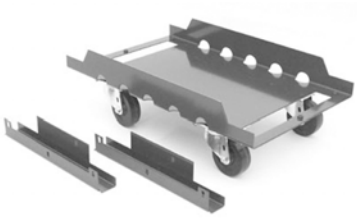
Accessories

	Torch Wrap and Spare Parts Kit Holder **This enables operator to store S/P Kit, wrap torch and work cable for easy transport and storage**	0558 003 398
	**Wheel Kit** **For easy transport of system**	0558 003 399
	Torch Guide Kits **The Deluxe kit includes attachments for circle and straight line cutting on ferrous and non-ferrous metals** **Deluxe, 1 3/4"-42" (44.5mm-1,066.8mm) radius** . **Basic, 1 3/4"-28" (44.5mm-711.2mm) radius**	 0558 003 258 0558 002 675
	Plasma Flow Measuring Kit **This valuable troubleshooting tool allows measurement of the actual plasma gas flow through the torch**	0558 000 739 (19765)
	Input Receptacle **230vac/50Amp, 3 Prong**	674540

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	Torch PT-31XLPC, 7.6m	0558 003 183
	PT-31XLPC Replacement torch **Torch comes assembled with Long “CE” Heat Shield, Nozzle, Electrode and Swirl Baffle**	0558 005 393
	Wear Part Kit PT-31XLPC	0558 003 301

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